



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

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and Jozef Van Puymbroeck

Group Art Unit: 2106

Application No. 08/651,036

Filed: May 17, 1996

For: **METHOD EMPLOYING UV LASER PULSES OF VARIED
ENERGY DENSITY TO FORM DEPTHWISE SELF-
LIMITING BLIND VIAS IN MULTILAYERED TARGETS**

Date: October 29, 1997

Examiner: Gregory Mills

SUPPLEMENTAL AMENDMENT

TO THE ASSISTANT
COMMISSIONER FOR PATENTS:

Further to the Amendment of August 5, 1997, please amend the
above-identified patent application as follows.

In the Claims:

Amend claims 4, 9, and 10 as follows:

4. (Twice amended) The method of claim [3] 1 in which the
first and second laser pulses have a temporal pulse width shorter than about
100 ns, the first and second laser outputs have an average output power of
greater than about 100 mW measured over their respective spatial spot
sizes, the first laser pulse is generated at a first repetition rate of greater
than about 1 kHz and the second laser pulse is generated at a repetition rate
that is significantly different from the first repetition rate.

10-9. (Amended) The method of claim [3] 1 in which the first
spatial spot size is less than about 100 μ m across its surface diameter.

11-10. (Twice amended) The method of claim [3] 1 in which the
first and second laser outputs are generated by a solid-state laser comprising
Nd:YAG, Nd:YLF, Nd:YAP, or Nd:YVO₄.